



Math Olympiad and Problem Solving Programs
E220 - Intermediate Math Competitions
Problem Set 10.1 - Expected Value

Name:

Date:

1.
2. There is a $\frac{1}{38}$ probability of winning, with a payout of \$36. There is a $\frac{37}{38}$ probability of losing with a payout of -\$1.00 (meaning you lose your dollar). So our equation is $\frac{1}{38} \times 36 + \frac{37}{38}(-1) = \frac{36}{38} - \frac{37}{38} = -\frac{1}{38} =$
3.
4.
5.
6.
7.
8.
9.
10.